## **CLAIMS**

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1. A method for manufacturing an integrated circuit comprising a nonvolatile memory, the method comprising:

forming a first layer comprising silicon, the first layer being to provide one or 5 more floating gates for the nonvolatile memory;

nitriding a surface of the first layer to incorporate nitrogen atoms into said surface;

forming a first dielectric at the nitrided surface, wherein forming the first dielectric comprises forming silicon oxide at the nitrided surface;

forming a conductive layer separated from the nitrided surface by the first dielectric, the conductive layer providing one or more control gates for the nonvolatile memory.

- 2. The method of Claim 1 wherein forming the silicon oxide at the nitrided surface comprises forming the silicon oxide by thermal oxidation.
- 15 3. The method of Claim 1 wherein the surface of the first layer is a polysilicon surface.
  - 4. An integrated circuit manufactured by the method of Claim 1.
  - 5. An integrated circuit comprising a nonvolatile memory cell: a channel region;
  - a first dielectric on a surface of the channel region;

a conductive floating gate on the first dielectric, the floating gate having a surface which has silicon and nitrogen atoms therein;

silicon oxide formed at said surface of the floating gate;

a conductive control gate opposite to said surface of the floating gate.

- 6. The integrated circuit of Claim 5 further comprising a second dielectric between said surface of the floating gate and the control gate.
  - 7. A method for manufacturing an integrated circuit comprising a nonvolatile memory, the method comprising:

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forming a first layer to provide one or more floating gates for the nonvolatile memory;

forming a first dielectric on a surface of the first layer, wherein the first dielectric comprises a first surface comprising silicon oxide;

nitriding the first surface of the first dielectric to incorporate nitrogen atoms into the first surface;

forming a conductive layer on the nitrided first surface of the first dielectric, the conductive layer providing one or more control gates for the nonvolatile memory.

- 8. An integrated circuit manufactured by the method of Claim 7.
- 9. An integrated circuit comprising a nonvolatile memory cell comprising: a channel region;
  - a first dielectric on a surface of the channel region;
  - a conductive floating gate on the first dielectric;
  - a second dielectric on a surface of the floating gate; and
  - a conductive control gate separated from the floating gate by the second dielectric;

wherein the second dielectric comprises a layer of silicon oxide having a surface having nitrogen atoms embedded therein; and

the control gate contacts said silicon oxide surface with nitrogen atoms.